

KEYSTONE K-7 ZOOM

8 MILLIMETER MOVIE CAMERA

INSTRUCTION MANUAL



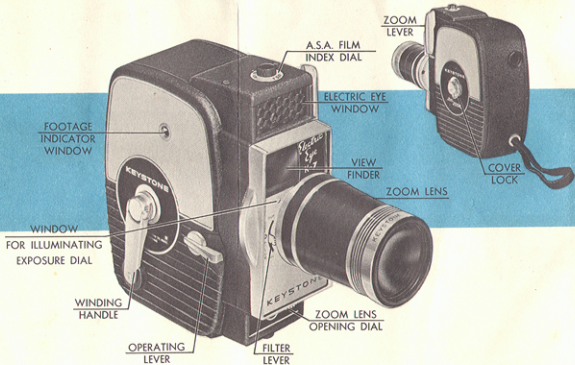
YOUR KEYSTONE ELECTRIC EYE ZOOM CAMERA MODEL K-7



To enjoy your camera and take movies at their finest, become familiar with the working parts and operating procedure of your ZOOM camera. Hold the camera in a comfortable position as shown, practice zooming the lens by slowly moving the lever forward or back until the desired effect is obtained.

The short length of practice film in your camera is supplied so that you may become acquainted with the proper threading. Exposure can not be made on this film.

As you read through the instruction manual, keep this page open for reference to operating parts.



KEEP THIS PAGE OPEN FOR REFERENCE

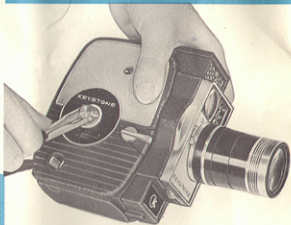
operating the camera . . .

1. Wind camera motor.
2. Set A.S.A. dial.
3. Set lens opening dial to "AUTO" or "MANUAL".
4. Set filter lever to correct position.
5. Open cover and load camera.
6. Frame subject in viewfinder.
7. Hold camera steady.
DO NOT BLOCK ELECTRIC EYE WINDOW.
8. Press operating lever.
9. Wind camera after each scene.

CAUTION:

As with all movie cameras panning is not recommended, especially in the telephoto position. However when following a subject (as a child at play) your camera will automatically expose correctly even if you should pan or move camera during a scene.

winding the camera . . .

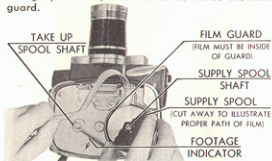


Before loading the film wind your camera motor. Lift the winding handle out of the recess in the case and flip it over into the winding position. Turn the winding handle clockwise until the camera motor is fully wound. After winding, turn the winding handle counter-clockwise and push it into the recess in the case.

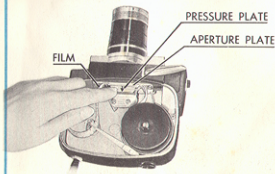
loading the camera . . .

IMPORTANT: Always load or unload the camera in subdued light. To open the camera cover turn the cover latch to the left and lift gently. Swing the footage indicator lever toward the rear of the camera (note arrow) and remove the take-up spool from the take-up spool shaft. Remove the purchased spool of film from the metal container. Save this container for returning the film to your dealer for processing. Hold the spool securely and unwind approximately 1 foot of film as a leader for threading purposes. Hold the film with both hands as shown and place the spool on the supply spool shaft.

The center hole with the four notches should be facing up and the film should be inside the film guard.



Move the pressure plate back (note arrow) with your forefinger and insert the film between the pressure plate and the aperture plate. Release the pressure plate. Check to insure that the light side of the film is facing towards the front of the camera and that the upper edge of the film is under the lip. Press down on the operating lever and release after running about 3 inches of film through the camera in order to check the proper film position.



loading the camera (cont.) . . .

Hold the take-up spool so that the side that reads "Film When On This Spool Is Only Half Exposed" is facing up. Insert the end of the film into the spool hub slot. Wind about 3 inches of film around the spool clockwise.



Swing the footage indicator lever (note arrow) toward the rear of the camera and place the take-up spool on the take-up spool shaft. Check to insure that the top surface of the spool is below the end of the shaft. Rotate the spool clockwise to take up slack in the film. Press down on the operating lever and release after running about 6 inches of film. If the film is threaded correctly, the take-up spool and supply spool will turn clockwise and the film will pass uniformly between the aperture plate and pressure plate. Replace the camera cover and lock it by turning the cover latch to the right. Run the camera until 25 appears in the center of the footage indicator window. The number appearing in this window indicates the number of feet of unexposed film remaining in the camera.



viewfinder and zoom lens . . .



2.8

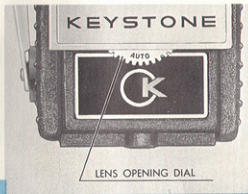
LENS OPENING

The zoom viewfinder is coupled with the zoom lens and automatically designates the correct field of view for all lens positions so that you may see at a glance the entire field of view that you wish to photograph.

Located below the picture field are the lens opening numbers. These will change according to the brightness of your scene or subject.

If the light is insufficient for properly exposed pictures, a red warning will have covered half of this window.

automatic operation . . .



For fully automatic operation rotate the lens opening dial until the word "AUTO" is visible. When adjusted correctly the dial will click into position. All that remains to be done to obtain perfectly exposed movies is to aim the camera at the scene or subject to be photographed and shoot.

zooming the lens . . .

Your Keystone f1.8 fixed focus zoom lens enables you to take scenes from normal to wide angle or telephoto without changing lenses or moving from your picture taking location.

When using various positions of the lens hold the camera firmly and move the lever slowly. A tripod is recommended for smooth effects especially in the telephoto position.

In bright sunlight movies may be made with lens at normal or wide angle positions as close as 6 feet.

The telephoto lens position should not be used less than 12 feet from the subject.

TELEPHOTO



NORMAL



WIDE ANGLE



electric eye setting for film type . . .

Your "Electric Eye" is designed for use with 8mm color or black and white movie film.

Built into the camera is an A.S.A. Film Index Dial. This dial enables you to set the "Electric Eye" to agree with the speed of the film to be used in the camera.

Example: If using A.S.A. 10 (outdoor color film) set the dial so that the marking adjacent to the number lines up with the red dot on the top of the camera.

The A.S.A. Film Index Dial can be set between the numbers when using film speed other than those on the dial.

When using indoor film outdoors move the filter lever to "IN" position and set A.S.A. Film Index Dial to A.S.A. 10.

The new Daylight Type Ansco Moviechrome Color Film (A.S.A. 20) has been provided for by the mark between 16 and 25 on the Film Index Dial.

It is important to remember to set the dial to agree with the A.S.A. number of the film to be used in the camera.

Each film type is designated by an exposure index number set by the A.S.A. (American Standards Association). These indexes are shown in the table below and are also in the pamphlet packed with your film.

FILM TYPE	A. S. A. EXPOSURE INDEX	
	DAYLIGHT	TUNGSTEN
KODACHROME DAYLIGHT TYPE	10	
KODACHROME TYPE A	10*	16
ANSCO MOVIECHROME DAYLIGHT TYPE	20	10**



*WITH DAYLIGHT CONVERSION FILTER
FOR TYPE A COLOR FILM.

**WITH NUMBER 80B FILTER.

operating lever . . .



◀ run . . .

The operating lever is shown in the run position. This is the normal operating position.



◀ lock run . . .

The lock run position is particularly useful when the camera is mounted on a tripod and the operator wishes to get into the scene being taken.



◀ single frame . . .

The operating lever is shown in the single frame position. Single frame operation is similar to that of a still picture in that one picture is exposed at a time. It is particularly useful for making animated titles or other special effects.

end of film . . .

When the figure "O" appears in the center of the footage indicator window stop taking movies. Operate the camera until "EXP" (exposed) appears in the center of the footage indicator window. Open the camera cover in subdued light and operate the camera until all the film is on the take-up spool.

second half . . .

Remove the upper (empty) spool. Swing the footage indicator lever toward the rear of the camera and remove the lower (full) spool in subdued light. Turn the full spool over (center hole with four notches will face up) and unroll about 1 foot of film as a leader for threading purposes. Place the full spool on the supply spool shaft and thread film as shown and described. Hold the empty spool so that the center hole with the 3 notches is facing up. Insert the film into the spool hub slot and wind about 3 inches of film around the spool clockwise. Swing the footage indicator lever back and place the empty spool on the take-up spool shaft.

Proceed as shown and described in loading the camera. (Page 4)

After the second half of the film has been exposed, remove the take-up (full) spool. Place the spool into the metal container in which it came. Place the can into the cardboard container and bring it or mail it to your dealer for processing.

Note: When the camera is not in use, avoid unnecessary tension on the motor spring by pressing the operating lever and letting the motor run down.

trial film . . .

It is recommended when using the camera for the first time that only one film be exposed and developed. After projection you will have an opportunity to study the exposure and other details of your first film, and make corrections for use on future films. If there are any questions we suggest you take your film to your dealer who will be glad to make recommendations for improvements.

advanced techniques . . .

Manual operation is recommended for the experienced photographer who wishes to obtain special photographic effects.

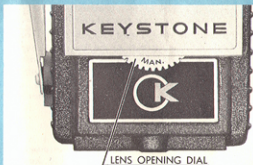
The camera is shipped to you in the "AUTO" position. There are two manual areas on the lens opening dial that enable the operator to control the lens openings.

By turning the dial counter-clockwise, while holding the camera in a viewing position, the lens opening becomes smaller to the f16 opening.

To increase the lens openings turn the dial clockwise; this will admit more light.

fading:

For the professional fade effect, slowly rotate the lens opening dial manually while taking movies. To "fade in" rotate from f16 to the normal exposure setting. To "fade out" rotate from the normal exposure setting to f16. Hold camera steady and whenever possible use a tripod for better results.



some of the conditions under which it may be preferable to use manual settings are:

LIGHT BACKGROUND

DARK BACKGROUND

INDIRECT LIGHT



When an average or dark subject is to be photographed against a light background at a distance from the camera, an exposure increase of $\frac{1}{2}$ to 1 full "f" number is recommended for proper exposure balance. If automatic exposure indicates f11, manually set the exposure for f8.



When an average or light subject is against a dark background an exposure decrease of $\frac{1}{2}$ to 1 full "f" number is recommended. If automatic exposure indicated f5.6 you may then prefer to manually set the exposure for f8.

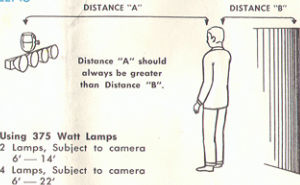


Another situation is when the light is not directly behind the camera but coming from one side or behind the subject. With the camera set on "AUTO" position move close to the subject and manually adjust to this same "f" number before shooting pictures in taking location.

AUTOMATIC EXPOSURE WITH PHOTOFLOOD LAMPS

KEYSTONE MODEL K-7 WITH F1.8 LENS

1. Use Type A Film, A.S.A. 16.
2. Move A.S.A. Film Index Dial to A.S.A. 16.
3. Move Filter Lever to "Out".
4. The subject should always be closer to the background than it is to the camera. This will insure an overall exposure as both subject and background will be lighted uniformly.
5. Using 300 Watt Lamps
2 Lamps, Subject to camera
6' — 13'
4 Lamps, Subject to camera
6' — 19½'



KEYSTONE GUARANTEE

Your Keystone camera carries a lifetime guarantee subject to the limitations noted on the registration card. The guarantee does not become effective unless your registration card is filled out and mailed to the Keystone factory within 60 days from the date of purchase. The serial number of your camera is located on the side nameplate. Fill out the registration card completely and mail it to KEYSTONE CAMERA CO., HALLET SQUARE, BOSTON 24, MASS.